

In the Claims:

Please amend the "annex" claims (pages 39 to 42 inclusive) as follows:

2. (amended) Polypeptides having antifreeze activity comprising one or more fragments (A-E) of the amino acid sequence as follows:

SEQ ID NOS. 1-5, respectively, in order of appearance

(A) LEU-PRO-ASN-LEU-PHE-GLY-LYS

(B) ILE-PRO-GLU-GLU-ILE-SER-ALA-LEU-LYS (SEQ ID No. 1)

(C) LEU-THR-ASP-LEU-SER-PHE-ASN-LYS

(D) SER-LEU-ARG-LEU-SER-SER-THR-SER-LEU-SER-GLY-PRO-VAL-PRO-LEU-PHE-PHE-PRO-GLN-LEU-X-LYS

(E) X-X-GLY-VAL-ILE-PRO-X-GLN-LEU-SER-THR-LEU-PRO-ASN-LEU-LYS

and isoforms or derivatives thereof which still possess antifreeze activity.

4. (amended) Polypeptides having antifreeze activity having an amino acid sequence as represented in SEQ ID NO. 7 and isoforms and derivatives thereof which still possess antifreeze activity.

5. (amended) An isolated nucleic acid sequence encoding the antifreeze polypeptide of claim 2 and alleles thereof encoding polypeptides which still possess antifreeze activity.
6. (amended) An isolated nucleic acid sequence corresponding to gene SEQ ID NO. 6 and alleles thereof encoding polypeptides which still possess antifreeze activity.

C2
concl'd

7. (amended) Method of obtaining polypeptides according to claim 2 whereby the polypeptide is isolated from cold-acclimatised carrots.

8. (amended) Method of obtaining polypeptides according to claim 2, whereby the polypeptide is expressed by a genetically modified organism.

10. (amended) An antibody capable of specifically binding the polypeptide of claim 2.

C3
concl'd

11. (amended) A polypeptide which has antifreeze activity that is immunologically related to the polypeptide of claim 2 as determined by its cross reactivity with an antibody of claim 10.

12. (amended) Food product comprising a polypeptide of claim 2 with the proviso that the food product is not a carrot.

C4
concl'd

14. (amended) Method of producing a food product comprising an antifreeze polypeptide according to claim 2, comprising the steps of

- (a) adding to the food product a composition comprising said antifreeze polypeptide;
- or
- (b) in situ production of said antifreeze polypeptide.

15. (amended) Use of the polypeptide of claim 2 for increasing the frost tolerance of plants.

16. Micro-organisms, cell line or plant capable of expressing the polypeptide of claim 2, with the proviso that the plant is not an unmodified carrot plant.